

10/525710

DT12 Rec'd PCT/PTO 24 FEB 2005

PTO/SB/08a/b (08-03)

Approved for use through 07/31/2005. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete If Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Burkhard Kröger
				Art Unit	NIA 1652
				Examiner Name	Not Yet Assigned T. Sarda
Sheet	1	of	1	Attorney Docket Number	13111-00006-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ³	Number-Kind Code ⁴ (if known)				
T/S	BA	WO-93/17112		09-02-1993	Genencor International Inc.		
	BB	WO-02/10206		02-07-2002	Degussa AG		
	BC	WO-02/10209		02-07-2002	Degussa AG		
	BD	WO-02/18613		03-07-2002	Degussa AG		
	BE	WO-02/097096		12-05-2002	Degussa AG		
	BF	WO-2004/024931		03-25-2004	BASF Aktiengesellschaft		
T/S	BG	WO-2004/024932		03-25-2004	BASF Aktiengesellschaft		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	T. Sarda	Date Considered	5/7/07
-----------------------	----------	--------------------	--------



PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/525710-Conf. #3746		
		Filing Date	February 24, 2005		
		First Named Inventor	Burkhard Kröger		
		Art Unit	1645 1652		
		Examiner Name	Not Yet Assigned T. Saidha		
Sheet	1	of	4	Attorney Docket Number	13111-00006-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JG	AA*	US-5,965,391	10-12-1999	Reinscheid et al.	
	AB*	US-5,158,891	10-27-1992	Takeda et al.	
	AC*	US-2003/0170775-A1	09-11-2003	Pompejus, et al.	
	AD*	US-4,489,160	12-18-1984	Katsumata et al.	
	AE*	US-4,601,893	07-22-1986	Cardinal	
	AF*	US-5,175,108	12-29-1992	Bachmann et al.	
JG	AG*	US 10/511,302		Kröger et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
JG	BA	EP-1108790-A2	06-20-2001	Kyowa Hakko Kogyo Co., Ltd.		
	BB	DE-10046870-A1	03-28-2002	BASF Aktiengesellschaft		See US- 2003/0170775-A1
	BC	WO-03/100072-A2	12-04-2003	BASF Aktiengesellschaft		
	BD	EP-0472869-A2	03-04-1992	Degussa AG		See US 5,175,108.
	BE	WO-96/15246-A1	05-23-1996	Forschungszentrum Jülich GMBH		See US 5,965,391.
	BF	JP-10-229891-A	09-02-1998	Mitsubishi Rayon Co., Ltd.		See Abstract.
JG	BE	WO-2003/087386-A3	10-23-2003	BASF Aktiengesellschaft		See US 10/511,302

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. * Applicant's unique citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
JG	CA	KASE, H., ET AL., "L-Methionine Production by Methionine Analog-resistant Mutants of <i>Corynebacterium glutamicum</i> ", Agr. Biol. Chem., Vol. 39, No. 1, 1975, pp. 153-160.		
	CB	MARTIN, J. F., ET AL., "Cloning Systems in Amino Acid-Producing <i>Corynebacteria</i> ", Biotechnology, Vol. 5, 1987, pp. 137-146.		
	CC	LIEBL, W., "High efficiency electroporation of intact <i>Corynebacterium glutamicum</i> cells", FEMS Microbiology Letters, Vol. 65, 1989, pp. 299-304.		
JG	CD	PEARSON, W. R., ET AL., "Improved tools for biological sequence comparison", Proc. Natl. Acad. Sci. USA, Vol. 85, 1988, pp. 2444-2448.		

Examiner Signature	T. Saidha	Date Considered	5/7/07
--------------------	-----------	-----------------	--------

424794

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/525710-Conf. #3746		
		Filing Date	February 24, 2005		
		First Named Inventor	Burkhard Kröger		
		Art Unit	1645 1652		
		Examiner Name	Not Yet Assigned T. Sarda		
Sheet	2	of	4	Attorney Docket Number	13111-00006-US

CE	LENNOX, E.S., "Transduction of Linked Genetic Characters of the Host by Bacteriophage P1", Virology, Vol. 1, 1955, pp. 190-206.
CF	SAHIN-TOTH, M., ET AL., "Cysteine scanning mutagenesis of the N-terminal 32 amino acid residues in the lactose permease of <i>Escherichia coli</i> ", Protein Sciences, Vol. 3, 1994, pp. 240-247.
CG	MALAKHOVA, I. I., ET AL., "Thin-Layer Chromatography of Free Amino Acids. Selection of Conditions for the Separation of L-Lysine, L-Homoserine, and L-Threonine", Biokhimiya, Vol. 11, 1996, pp. 27-32.
CH	WAHL, G. M., ET AL., "Cosmid vectors for rapid genomic walking, restriction mapping, and gene transfer", Proc. Natl. Acad. Sci. USA, Vol. 84, 1987, pp. 2160-2164.
CI	EIKMANN, B. J., "Identification, Sequence Analysis, and Expression of a <i>Corynebacterium glutamicum</i> Gene Cluster Encoding the Three Glycolytic Enzymes Glyceraldehyde-3-Phosphate Dehydrogenase, 3-Phosphoglycerate Kinase, and Triosephosphate Isomerase", Journal of Bacteriology, Vol. 174, No. 19, 1992, pp. 6076-6086.
CJ	BEN-BASSAT, A., ET AL., "Processing of the Initiation Methionine from Proteins: Properties of the <i>Escherichia coli</i> Methionine Aminopeptidase and Its Gene Structure", Journal of Bacteriology, Vol. 169, No. 2, 1987, pp. 751-757.
CK	TAUCH, A., ET AL., " <i>Corynebacterium glutamicum</i> DNA is subjected to methylation-restriction in <i>Escherichia coli</i> ", FEMS Microbiology Letters, Vol. 123, 1994, pp. 343-348.
CL	LIEBL, W., ET AL., "Transfer of <i>Brevibacterium divaricatum</i> DSM 20297 ¹ , " <i>Brevibacterium flavum</i> " DSM 20411, " <i>Brevibacterium lactofermentum</i> " DSM 20412 and DSM 1412, and <i>Corynebacterium lilium</i> DSM 20137 ¹ to <i>Corynebacterium glutamicum</i> and Their Distinction by rRNA Gene Restriction Patterns", International Journal of Systematic Bacteriology, Vol. 41, No. 2, 1991, pp. 255-260.
CM	THIERBACH, G., ET AL., "Transformation of spheroplasts and protoplasts of <i>Corynebacterium glutamicum</i> ", Appl. Microbiol. Biotechnol., Vol. 29, 1988, pp. 356-362.
CN	BUTLER, B. A., "Sequence Analysis Using GCG", Methods of Biochemical Analysis, Vol. 39, 1998, pp. 74-97.
CO	SCHRUMPF, B., ET AL., "A Functionally Split Pathway for Lysine Synthesis in <i>Corynebacterium glutamicum</i> ", Journal of Bacteriology, Vol. 173, No. 14, 1991, pp. 4510-4516.
CP	EIKMANN, B. J., ET AL., "A family of <i>Corynebacterium glutamicum</i> / <i>Escherichia coli</i> shuttle vectors for cloning, controlled gene expression, and promoter probing", Gene, Vol. 102, 1991, pp. 93-98.
CQ	SCHÄFER, A., ET AL., "Small mobilizable multi-purpose cloning vectors derived from the <i>Escherichia coli</i> plasmids pK18 and pK19: selection of defined deletions in the chromosome of <i>Corynebacterium glutamicum</i> ", Gene, Vol. 145, 1994, pp. 69-73.
CR	STADEN, R., "The current status and portability of our sequence handling software", Nucleic Acids Research, Vol. 14, No. 1, 1986, pp. 217-231.
CS	SERWOLD-DAVIS, T. M., ET AL., "Localization of an origin of replication in <i>Corynebacterium diphtheriae</i> broad host range plasmid pNG2 that also functions in <i>Escherichia coli</i> ", FEMS Microbiology Letters, Vol. 68, 1990, pp. 119-124.
CT	SONNEN, H., ET AL., "Characterization of pGA1, a new plasmid from <i>Corynebacterium glutamicum</i> LP-6", Gene, Vol. 107, 1991, pp. 69-74.
CU	PATEK, M., ET AL., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif", Microbiology, 1996, Vol. 142, pp. 1297-1309.
CV	GRANT, S. G. N., ET AL., "Differential plasmid rescue from transgenic mouse DNAs into <i>Escherichia coli</i> methylation-restriction mutants", Proc. Natl. Acad. Sci. USA, Vol. 87, 1990, pp. 4645-4649.
CW	JENSEN, P. R., ET AL., "Artificial Promoters for Metabolic Optimization", Biotechnology and Bioengineering, Vol. 58, 1998, pp. 191-195.

Examiner Signature	T. Sarda	Date Considered	5/7/07
--------------------	----------	-----------------	--------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/525710-Conf. #3746		
		Filing Date	February 24, 2005		
		First Named Inventor	Burkhard Kröger		
		Art Unit	1645-1652		
		Examiner Name	Not Yet Assigned T. Saidha		
Sheet	3	of	4	Attorney Docket Number	13111-00006-US

98	CX	DUNICAN, L. K., ET AL., "High Frequency Transformation of Whole Cells of Amino Acid Producing Coryneform Bacteria Using High Voltage Electroporation", Biotechnology, Vol. 7, 1989, pp. 1067-1070.
	CY	LABARRE, J., ET AL., "Gene Replacement, Integration, and Amplification at the <i>gdhA</i> Locus of <i>Corynebacterium glutamicum</i> ", Journal of Bacteriology, 1993, Vol. 175, No. 4, pp. 1001-1007.
	CZ	BOLIVAR, F., "Molecular Cloning Vectors Derived From The CoLE1 Type Plasmid pMB1", Life Sciences, Vol. 25, 1979, pp. 807-818.
	CA1	SCHWARZER, A., ET AL., "Manipulation of <i>Corynebacterium glutamicum</i> by Gene Disruption and Replacement", Biotechnology, Vol. 9, 1991, pp. 84-87.
	CB1	TAUCH, A., ET AL., "The Erythromycin Resistance Gene of the <i>Corynebacterium xerosis</i> R-plasmid pTP10 Also Carrying Chloramphenicol, Kanamycin, and Tetracycline Resistances is Capable of Transposition in <i>Corynebacterium glutamicum</i> ", Plasmid, Vol. 33, 1995, pp. 168-179.
	CC1	TSUCHIYA, M., ET AL., "Genetic Control Systems of <i>Escherichia coli</i> Can Confer Inducible Expression of Cloned Genes in Coryneform Bacteria", Biotechnology, Vol. 6, 1988, pp. 428-430.
	CD1	KOHARA, Y., ET AL., "The Physical Map of the Whole <i>E. coli</i> Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a Large Genomic Library", Cell, Vol. 50, 1987, pp. 495-508.
	CE1	SAHM, H., ET AL., "Pathway Analysis and Metabolic Engineering in <i>Corynebacterium glutamicum</i> ", Biol. Chem., Vol. 381, 2000, pp. 899-910.
	CF1	IKE, Y., ET AL., "Solid phase synthesis of polynucleotides. VIII. Synthesis of mixed oligodeoxyribonucleotides by the phosphotriester solid phase method", Nucleic Acids Research, Vol. 11, No. 2, 1983, pp. 477-488.
	CG1	DELAGRAVE, S., ET AL., "Recursive ensemble mutagenesis", Protein Engineering, Vol. 6, No. 3, 1993, pp. 327-331.
	CH1	ARKIN, A. P., ET AL., "An algorithm for protein engineering: Simulations of recursive ensemble mutagenesis", Proc. Natl. Acad. Sci., USA, Vol. 89, 1992, pp. 7811-7815.
	CI1	MARCK, C., "DNA Strider: a 'C' program for the fast analysis of DNA and protein sequences on the Apple Macintosh family of computers", Nucleic Acids Research, Vol. 16, No. 5, 1988, pp. 1829-1836.
	CJ1	HOCHULI, E., ET AL., "Genetic Approach to Facilitate Purification of Recombinant Proteins With a Novel Metal Chelate Adsorbent", Biotechnology, Vol. 6, 1988, pp. 1321-1325.
	CK1	GUERRERO, C., ET AL., "Directed mutagenesis of a regulatory palindromic sequence upstream from the <i>Brevibacterium lactofermentum</i> tryptophan operon", Gene, Vol. 138, 1994, pp. 35-41.
	CL1	ITAKURA, K., ET AL., "Expression in <i>Escherichia coli</i> of a Chemically Synthesized Gene for the Hormone Somatostatin", Science, Vol. 198, 1977, pp. 1056-1063.
	CM1	MAKRIDES, S. C., "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ", Microbiological Reviews, Vol. 60, No. 3, 1996, pp. 512-538.
	CN1	BERNARD, P., ET AL., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase", J. Mol. Biol., Vol. 234, 1993, pp. 534-541.
	CO1	SPRATT, B. G., "Kanamycin-resistant vectors that are analogues of plasmids pUC8, pUC9, pEMBL8 and pEMBL9", Gene, Vol. 41, 1986, pp. 337-342.
	CP1	NARANG, S. A., "Tetrahedron Report Number 140 - DNA synthesis", Tetrahedron, Vol. 39, No. 1, 1983, pp. 3-22.
98	CQ1	SCHMIDT, S., ET AL., "Near infrared spectroscopy in fermentation and quality control for amino acid production", Bioprocess Engineering, Vol. 19, 1998, pp. 67-70.
98	CR1	ITAKURA, K., ET AL., "Synthesis and Use of Synthetic Oligonucleotides", Ann. Rev.

Examiner Signature	T. Saidha	Date Considered	5/7/07
--------------------	-----------	-----------------	--------

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/525710-Conf. #3748		
		Filing Date	February 24, 2005		
		First Named Inventor	Burkhard Kröger		
		Art Unit	1645/652		
		Examiner Name	Not Yet Assigned - T. Saidha		
Sheet	4	of	4	Attorney Docket Number	13111-00006-US

		Biochem., Vol. 53, 1984, pp. 323-356.	
	CS1	EIKMANN, B. J., ET AL., "Molecular Aspects of lysine, threonine, and isoleucine biosynthesis in <i>Corynebacterium glutamicum</i> ", <i>Antonie van Leeuwenhoek</i> , Vol. 64, 1993, pp. 145-163.	
	CT1	O'REGAN, M., ET AL., "Cloning and nucleotide sequence of the phosphoenolpyruvate carboxylase-coding gene of <i>Corynebacterium glutamicum</i> ATCC13032", <i>Gene</i> , Vol. 77, 1989, pp. 237-251.	
	CU1	MALUMBRES, M., ET AL., "Codon preference in <i>Corynebacteria</i> ", <i>Gene</i> , Vol. 134, 1993, pp. 15-24.	
	CV1	SIMON, R., ET AL., "A Broad Host Range Mobilization System for <i>In Vivo</i> Genetic Engineering: Transposon Mutagenesis in Gram Negative Bacteria", <i>Biotechnology</i> , Vol. 1, 1983, pp. 784-791.	
	CW1	EIKMANN, B. J., ET AL., "Nucleotide sequence, expression and transcriptional analysis of the <i>Corynebacterium glutamicum</i> <i>glcA</i> gene encoding citrate synthase", <i>Microbiology</i> , Vol. 140, 1994, pp. 1817-1828.	
	CX1	SANGER, F., ET AL., "DNA sequencing with chain-terminating inhibitors", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 74, No. 12, 1977, pp. 5463-5467.	
	CY1	REINSCHIED, D. J., ET AL., "Stable Expression of <i>hom-1-thrB</i> in <i>Corynebacterium glutamicum</i> and Its Effect on the Carbon Flux to Threonine and Related Amino Acids", <i>Applied and Environmental Microbiology</i> , Vol. 60, No. 1, 1994, pp. 126-132.	
	CZ1	VIEIRA, J., ET AL., "The pUC plasmids, an M13mp7-derived system for insertion mutagenesis and sequencing with synthetic universal primers", <i>Gene</i> , Vol. 19, 1982, pp. 259-268.	
	CA2	PATEK, M., ET AL., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis", <i>Applied and Environmental Microbiology</i> , Vol. 60, No. 1, 1994, pp. 133-140.	
	CB2	MOTOYAMA, H., ET AL., "Overproduction of L-Lysine from Methanol by <i>Methylobacillus glycogenes</i> Derivatives Carrying a Plasmid with a Mutated <i>dapA</i> Gene", <i>Applied and Environmental Microbiology</i> , Vol. 67, No. 7, 2001, pp. 3064-3070.	
	CC2	SHIMIZU, H., ET AL., "Cloning and overexpression of the <i>oah1</i> gene encoding O-acetyl-L-homoserine sulphydrylase of <i>Thermus thermophilus</i> HB8 and characterization of the gene product", <i>Biochimica et Biophysica Acta</i> , Vol. 1549, 2001, pp. 61-72.	
	CD2	YAMAGATA, S., ET AL., "Overexpression of the <i>Saccharomyces cerevisiae</i> MET17/MET25 gene in <i>Escherichia coli</i> and comparative characterization of the product with O-acetylserine - O-acetylhomoserine sulphydrylase of the yeast", <i>Appl. Microbiol. Biotechnol.</i> , Vol. 42, 1994, pp. 92-99.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	T. Saidha	Date Considered	5/7/07
--------------------	-----------	-----------------	--------